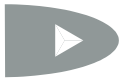
# *MVX Copy Keypad Instructions*

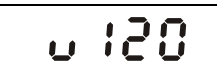
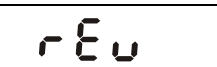
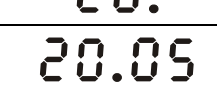
## 1. Keypad

## 2. Description of Keypad

| Button | Function |
|---|---|
| | Left Arrow<br>● In parameter edit mode, exits mode, backs up one step<br>● Cancels edited parameter (exit from a parameter edit mode) |
|  | Right Arrow<br>● Enter parameter group mode<br>● Enter parameter mode from group mode |
| | Display modes<br>● Display read mode, save mode and delete mode. |
| <br> | Up and Down Arrows<br>● Move either up or down through the display pages.<br>● Move either up or down through the group list.<br>● Move either up or down through the parameter list.<br>● Increase/decrease the speed reference value on the keypad (when selected). |

| Button | Function |
|---|---|
| | ● Move either up or down through the copy blocks list in order to select the desired copy block. |
| | Enter<br>● Used for parameter edit confirmation, acceptance (confirmation) of the edited parameter value with exit from parameter edit mode.<br>● Press this button for 2 minutes to confirm to copy in copy mode, save in save mode and delete in delete mode. |
| | Local<br>● Switch the operation command source. |
| | JOG<br>● Disable/Enable JOG RUN. |
| | FWD/REV<br>● The AC drive run direction |
| | START<br>● Enable Run command. |
| | Stop / Reset<br>This button has two integrated operations. The button operates as Stop button for normal operation. In fault mode it is used to reset the fault.<br>Stop<br>● Motor STOP from the keypad when keypad enabled.<br>● In programming mode press STOP key to cancel previous action and back up one step<br>Reset<br>● Used for resetting a fault<br>- Fault history is reset if ENTER is pressed while in the ‘Fault History’ menu |

## 3. Explanation of Display Message

| Display Message | Description |
|---|---|
| | The AC drive input frequency reference. |
| | The setpoint percentage of AC drive. |
| | The actual operation frequency at the output terminals T1, T2 and T3. |
| | The output current present at the output terminals T1, T2 and T3. |
| | The value of the user defined units. |
|  | The output voltage present at the output terminals T1, T2 and T3. |
| | The temperature of the unit. |
| | The AC drive forward run status. |
|  | The AC drive reverse run status. |
|  | Display the status of read block in copy-read mode. Press and hold the ENTER key for 2 seconds, “rEAd1” will flash and parameters are read from the drive and saved into the keypad under “block1” (or block2, block3. block4 depending which one is flashing) (maximum memory capacity is 4 programs). |
| | Display the status of save block in copy-save mode. Press and hold the ENTER key for 2 seconds, “SAuE1” will flash and parameters from block1 (or block2, block3, block4 depending on which one is flashing) are downloaded into the drive. |
| | Display the block you are about to delete. Users may delete programs in the keypad by pressing and holding the ENTER key for 2 seconds, “dELE1” will flash and delete the parameters in block1. |
| | Parameter group selection. |
|  | The specific parameter selection. |

| Display Message | Description |
|---|---|
| 10 | Display the setting of the parameter. |
| End | “End” displays for approximately 1 second if input has been accepted. After a parameter value has been set, the new value is automatically stored in memory. |
| rESEt | “rESEt” displays, if the keypad reset driver. |
| LoAd | Displayed when keypad is powered on. |

## 4.Keypad error message

| Error Message | Description | Corrective Actions |
|---|---|---|
| CE01 | Illegal command code. The command code received in the command message is not available for the AC drive. | The corrective action can be set with the Transmission Fault Treatment parameter 90.04. |
| CE02 | Illegal data address. The data address received in the command message is not available for the AC drive. | |
| CE03 | Illegal data value. The data value received in the command message is not available for the AC drive. | |
| CE04 | Slave device failure. The AC drive is unable to perform the requested action. | |
| CE10 | Communication time out | 1.“CE10” will display when modifying communication parameters and auto re-communicate after x seconds. If communication continues to fail, please check the wiring between the drive and keypad and avoid any magnetic interference. |
| drErr | The parameters in block are not suitable for this model. Please re-execute copy-read and save again. | Please delete the parameters in copy-delete mode, read parameters from the same model and copy-save again. |
| SEEEr | Failed to save data to the keypad EEPROM. | Please check all communication wiring. If communication continues to fail, please contact the factory. |

| Error Message | Description | Corrective Actions |
|---|---|---|
| dOuEr | The contents of parameters in keypad block exceed the setting range of the driver Please reset, execute copy-read and save again. | Please verify the same software versions are being used. If the same, then execute the copy-read and save functions again. |
| POuEr | The numbers of parameters in keypad block are more than the drive. Copy-save can't be used at this time. The "copy" function may only be used when the parameter groups in the keypad are less than or equal drive's. | Please verify the software versions are the same. If the same, then execute the copy-read and save functions again. |
| SOuEr | There is not enough serial EEPROM space. | Please delete one block first and then execute read function. |
| dELEr | Failed to delete serial EEPROM block. | Please check the communication wiring. If communication continues to fail, please contact the factory. |
| SnuLL | All of the serial EEPROM data blocks are null, No save function allowed. | Please execute copy-read function first. |
| SdAEr | The serial EEPROM data blocks failed. The data in this block may be destroyed. | Please re-execute copy-read function. |
| dALoc | The parameters of the drive are locked and it will not execute the function of copy-read.. | 1. Please stop the drive.<br>2. Please set parameter 80.10=0 and then execute the copy-read. |
| drnoS | The drive will not allow a save function. | 1. Please stop the drive<br>2. Please set parameter 80.10=0 and then execute the copy-save. |
| Err | "Err" displays, if the input is invalid. | 1. Please stop drive.<br>2. Please set parameter 80.10=0 and then reset. |